



# Impella® Updates

September, 2015

## Estimating Impella® 5.0/LD Flow from Motor Current

### WHAT'S NEW?

Abiomed has observed that when clinicians encounter an unreliable differential pressure sensor while a patient is being supported with the Impella® 5.0 or Impella® LD Catheter, they may decide to unnecessarily replace the Impella® Catheter, and in doing so, subject the patient to a second procedure. Abiomed has determined that clinicians may be able to avoid unnecessarily replacing the Impella® Catheter by estimating Impella® 5.0/LD flow using the motor current value displayed on the Automated Impella® Controller.

### PUTTING IT INTO PRACTICE

The following table can be used to estimate Impella® 5.0/LD flow from the mean motor current displayed in parentheses on the Automated Impella® Controller. While these flow rates are variable, they can provide clinicians with an alternative method for estimating Impella® 5.0/LD flow.

### SUMMARY

While the flow rates associated with a given motor current rate are variable, the motor current can provide clinicians with an alternative method for estimating Impella® 5.0/LD flow.

### Estimating Impella® 5.0/LD Flow From Mean Motor Current

Mean Motor Current (mA)	Mean Impella® Flow* (L/min)	P-level
0	0	P-0
80 – 120	0.4 – 0.6	P-1
160 – 200	1.0 – 2.5	P-2
280 – 330	1.5 – 3.0	P-3
320 – 400	2.1 – 3.3	P-4
380 – 440	2.5 – 3.6	P-5
440 – 520	3.0 – 3.9	P-6
520 – 600	3.4 – 4.3	P-7
600 – 710	3.5 – 4.6	P-8
730 – 860	4.4 – 5.2	P-9

\* Flow rates can vary due to suction or incorrect positioning